

### **ABSTRACT**

A chitosan enhanced coupling capable of assisting in the removal of silt, sedimentation and suspended solids from incoming water is disclosed. The inventive coupling generally comprises a first end defining an opening therethrough, a second end defining an opening therethrough, a midsection located between said first end and said second end, an auxiliary opening having a removable sealed lid and located along said midsection, and one or more applications of chitosan located within said midsection. A fabric sock containing one or more bars of chitosan gel is anchored to the removable lid for maximized exposure to incoming fluid. The midsection of the coupling has a diameter that is about twice the diameter of either the first or second ends, such that passing fluid slows as it passes through the midsection.